

UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Application of: Hannu PAUNONEN, et al.

Serial No.: Not yet known

Filed: Simultaneously

For: **A METHOD IN A PROCESS CONTROL  
SYSTEM AND A PROCESS CONTROL  
SYSTEM**

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents  
Washington, D.C. 20231

June 5, 2001

Sir:

Prior to examination and calculation of the filing fee, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please substitute for the original specification the "Un-Marked Version of the Substitute Specification" enclosed herewith.

In addition, enclosed please find a "Marked-Up Version of the Substitute Specification." It is respectfully requested that the present specification be amended according to the "Marked-Up Version of the Substitute Specification" submitted herewith. Please note, additions to the specification are denoted by either underlining and/or hyphenating and deletions from the specification are denoted by bracketing.

**IN THE CLAIMS:**

Please amend the claims as follows:

1. (Amended) A method in a process control system, in which a terminal displays symbols illustrating parts of a process and information about the status of the process, related to concrete places in the operating environment of the process, such as actuators, pumps, measuring devices, process equipment parts, [or the like, **characterized** in that] wherein corresponding graphic images are allotted to said concrete places, indicating the location of the place in the process, and these graphic images can be displayed in the operating environment of the process control system when the process is running.

2. (Amended) The method according to claim 1, [**characterized** in that] wherein the graphic image is displayed by activating with an input device of the terminal the representation corresponding to a desired concrete place and displayed on the display device of the terminal, [such as] said display device comprising at least one of a symbol[,] and text[,] or the like] that indicates said concrete place.

3. (Amended) The method according to claim 1 [or 2, **characterized** in that] wherein a separate graphic image is provided for each of a plurality of concrete places.

4. (Amended) The method according to claim 1 [or 2, **characterized** in that] wherein at least some of the concrete places are illustrated in the same graphic image and the place whose virtual image can be displayed as a graphic image of its own, is shown in the graphic image

in a distinguished manner, [such as] said showing comprising one of by circling, by a changed background, by a symbol, [or] and in a corresponding manner.

5. (Amended) The method according to [any of the preceding claims, **characterized** in that] claim 1, wherein the graphic image can be displayed with the display device in parallel with corresponding information indicating the status of the process, [particularly] together with information related to the place being displayed, [for example] in such a way that the information is displayed ready within the retrieved graphic image or otherwise linked to it in such a way that it can be retrieved.

6. (Amended) The method according to [any of the preceding claims, **characterized** in that] claim 1, wherein the terminal, which comprises the display device and the input device, is portable or wearable and [it] is in a wireless data transmission connection with the process control system.

7. (Amended) The method according to [any of the preceding claims, **characterized** in that] claim 1, wherein the graphic image comprises one or several portions which can be displayed as a separate graphic image of its own, [preferably in] wherein said separate graphic image is at least one of a more detailed view [and/or] and provided with additional data.

8. (Amended) The method according to [any of the preceding claims, **characterized** in that] claim 1, wherein the graphic image [can be] is processed when it is displayed, [for example]

in such a way that a 3-dimensional graphic image [can be] is at least one of turned in different angles of viewing [and/or it can be] and is enlarged.

9. (Amended) The method according to [any of the preceding claims, **characterized** in that] claim 1, wherein the graphic image is a virtual image corresponding to a 3-dimensional view of the concrete place.

10. (Amended) A process control system, comprising

- a terminal (4) having a display device (4a) and an input device (4b),
- a user interface software (3) connected to the terminal and to a process,
- [in the] said user interface software (3) comprising, several process graphic images (5), each of said several process graphic images containing symbols or representations of concrete places of a plant where the process to be controlled takes place,
- [in the] said user interface software (3) further comprising, several images (6) that correspond to respective symbols or representations of at least one of said process graphic [diagram] images (5), and
- means for visualizing at least one of said several images (6), connected to the input device (4b), [means for visualizing an image (6)] upon activating a corresponding symbol or representation in said process graphic [diagram] images (5).

Please add the following new claims.

11. (New) A method in a process control system, comprising the steps of:  
displaying, with a terminal, symbols illustrating parts of a process control system;  
displaying, with said terminal, information regarding the status of said process control system  
related to concrete places in an operating environment of said process control system, said concrete  
places comprising actuators, pumps, measuring devices and process equipment parts;  
allotting corresponding graphic images to said concrete places, said graphic images indicating  
a location in said process control system; and

displaying said graphic images in said operating environment of said process control system  
when the process is running.

12. (New) The method according to claim 11, further comprising the steps of:  
displaying the graphic image by activating, with an input device of the terminal, a  
representation corresponding to a desired concrete place; and  
displaying on the display device of the terminal at least one of a symbol and text that indicates  
said concrete place.

13. (New) The method according to claim 11, wherein a separate graphic image  
is provided for each of a plurality of concrete places.

14. (New) The method according to claim 11, further comprising the steps of:  
illustrating at least some of said concrete places in a same graphic image; and

showing a concrete place, whose virtual image can be displayed as a graphic image of its own, in said graphic image in a distinguishing manner, said distinguishing manner comprising one of by circling, by changing a background, by a symbol, and in any other corresponding manner.

15. (New) The method according to claim 11, further comprising the step of displaying said graphic image, with the display device in parallel, with corresponding information indicating the status of the process, together with information related to the concrete place being displayed, in such a way that the information is displayed within a retrieved graphic image or otherwise linked to said retrieved graphic image in such a way that the information is retrievable.

16. (New) The method according to claim 11, wherein the terminal, which comprises the display device and the input device, is portable or wearable and is in a wireless data transmission connection with the process control system.

17. (New) The method according to claim 11, wherein the graphic image comprises one or several portions which can be displayed as a separate graphic image of its own, wherein said separate graphic image is at least one of a more detailed view and provided with additional data.

18. (New) The method according to claim 11, further comprising the step of processing the graphic image when said graphic image is displayed, in such a way that a 3-dimensional graphic image is at least one of turned in different angles of viewing and is enlarged.

19. (New) The method according to claim 11, wherein the graphic image is a virtual image corresponding to a 3-dimensional view of the concrete place.

Enclosed please find an "Un-Marked Version of the Claims as Amended" including all of the amendments made to claims 1 to 10 above. In addition, the "Un-Marked Version of the Claims as Amended" includes new claims 11-19 added herein. It is respectfully submitted that the subject matter of new claims 11-19 is commensurate in scope with the subject matter of original claims 1-9 and is supported by the original specification.

Please note, additions to the claims are denoted by underlining and deletions from the claims are denoted by bracketing.

#### **REMARKS**

The specification has been amended to include section headings at appropriate locations and to correct minor grammatical errors.

The claims have been amended to remove multiple dependencies therefrom in order to reduce the filing fee and to more clearly define the invention. New claims 11-19 have been added which are commensurate in scope with original claims 1-19.

Moreover, the amendments to the claims made herein have been made to conform the claims to U.S. practice and have not been made for purposes of patentability.

An early and favorable action on the merits is earnestly solicited.

Respectfully submitted,

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Encls.

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- Un-Marked Version of the Claims as Amended